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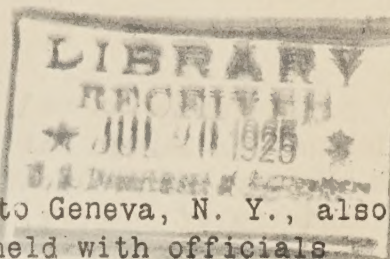
MONTHLY LETTER OF THE BUREAU OF ENTOMOLOGY  
UNITED STATES DEPARTMENT OF AGRICULTURE

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TRUCK-CROP INSECT INVESTIGATIONS

J. E. Graf, Entomologist, in Charge



N. F. Howard recently visited Washington en route to Geneva, N. Y., also stopping off at Harrisburg, Pa., where a conference was held with officials of the State Bureau of Plant Industry regarding work in Pennsylvania against the Mexican bean beetle. He then proceeded to the Bureau's substation at Geneva, where the investigations being conducted by Mr. Cecil were reviewed, and plans were discussed for cooperation with Professor Parrott, of the Agricultural Experiment Station. He next visited the Bureau's substation at Columbus, Ohio, where a conference was held with Dr. DeLong and others interested in the Mexican bean beetle investigations.

W. H. White recently visited Madison, Wis., to observe the operation of the aphidozer on peas. He also looked over the work being conducted by Mr. Davis at Racine, Wis., under the direction of Mr. Dudley, on the control of the onion maggot. Returning, he visited Akron, Ohio, to observe the reported injury by thrips to cucumbers in certain greenhouses in that section.

Messrs. Campbell, Elmore and Dunavan attended the meetings of the Pacific Slope Branch of the American Association of Economic Entomologists held at Portland, Ore., the middle of June.

Dr. R. N. Chapman, Associate Professor of Entomology at the University of Minnesota, and Collaborator of this division, recently visited the laboratory at Toppenish, Wash., and discussed the sugar-beet leafhopper work with Mr. Carter.

C. F. Stahl, formerly of this division, visited this office on his way to Riverside, Calif., to spend a short vacation before returning to Baragua, Cuba, where he is now connected with the Tropical Plant Research Foundation.

Dr. J. H. Montgomery, of the State Plant Board of Florida, recently visited this office and discussed the eradication work on the sweet-potato weevil which is being conducted in cooperation with that Board. At this time also the celery leaf-tyer problem in Florida, on which the Bureau will cooperate with the State Plant Board, was discussed in a preliminary way.

J. R. Douglas visited points in southern Colorado to take notes on the time of the emergence of the Mexican bean beetle from hibernation in that area.

The following men have been given temporary appointments as field assistants: H. L. Weatherby, Birmingham, Ala., D. M. DeLong, Columbus, Ohio, C. H. Martin, Estancia, N. M., C. H. Griffith, Toppenish, Wash., and H. Beerman, Riverton, N. J.



## TAXONOMIC INVESTIGATIONS

S. A. Rohwer, Entomologist, in Charge

A. Loveridge, a well known herpetologist, who has done a great deal of collecting in German East Africa, was recently in Washington in connection with studies of the Roosevelt African Collection, and spent a few hours in the Division of Insects.

T. B. Mitchell, of the North Carolina Department of Agriculture, called at the Division of Insects to study types of bees of the genus *Megachile* and arrange for exchanges.

Prof. T. N. Hubbell, of the University of Florida, and one of his students, D. N. Bates, recently spent three or four days in the Division of Insects, studying parts of the collection. Professor Hubbell is specially interested in Orthoptera, and took this opportunity to make notes on certain types. Mr. Bates is primarily interested in Lepidoptera.

Dr. H. B. Dyar has received an interesting collection of mosquitoes from W. H. W. Comp, of the Public Health Service, Honduras. This is the first collection of mosquitoes from that locality to be received by the museum.

R. A. Cushman left on June 22 for Halsey, Nebr., where he will liberate parasites of the tip moth. Mr. Cushman has devoted considerable time during the past spring to studying parasites of the tip moth around Washington, and has made a large collection. It is hoped that the liberation of these parasites will aid in the control of the tip moth, which is doing such damage in the Nebraska National Forest.

John R. Greeley, who graduated in June from Cornell University, was employed during the last two weeks in June to assist Mr. McAtee in the arrangement of the collection of Hemiptera. Mr. Greeley has previously worked on the collection and is familiar with methods of arranging and preservation. In July Mr. Greeley is to do field work for the Biological Survey.

Fred M. Schott, of Brooklyn, N. Y., was in the Division of Insects a short time recently, studying the collection of beetles and flies. While in Washington he went with H. S. Barber on a collecting trip for fireflies.

Dr. W. E. Britton, of the Connecticut Agricultural Experiment Station, was recently in Washington attending one of the public hearings of the Federal Horticultural Board, and while here visited the Division of Insects.

H. Caracciola, of Trinidad, recently called at the Division to become acquainted with some of the workers and to arrange exchanges of insects. Mr. Caracciola has corresponded with the Bureau for 35 years, knew many of the older entomologists, and remembered well the late C. V. Riley.



## CEREAL AND FORAGE INSECT INVESTIGATIONS

W. R. Walton, Entomologist, Acting in Charge

C. C. Hill, in charge of the Carlisle, Pa., laboratory, visited the Washington office early in June.

Dr. Philip Luginbill, of the Columbia, S. C., laboratory, made a trip during the latter part of June to various plats located in North Carolina and Virginia in connection with the southern corn rootworm investigations.

J. R. Horton, of the Wichita, Kans., laboratory, spent some time during June in Hessian fly work in eastern Kansas and Missouri.

George G. Ainslie has recently returned from a survey of middle and western Tennessee, in connection with Hessian fly experimental plats.

W. A. Baker, of the Dallas, Tex., substation, has just completed a grasshopper survey covering the northeastern counties of Texas.

W. J. Phillips, in charge of the Charlottesville, Va., laboratory, received the degree of Doctor of Science from the University of Virginia in June.

W. H. Larrimer, in charge of the Lafayette, Indiana, laboratory, received the degree of Doctor of Science from Ohio State University early in June.

C. M. Packard of the Sacramento, Calif., laboratory, recently received the degree of Master of Science from the University of California.

J. W. Nuttycombe has accepted a temporary appointment for duty at Charlottesville, Va., in connection with jointworm and corn earworm investigations.

W. H. Larrimer, of the Lafayette, Ind., laboratory, spent a few days in Washington recently in consultation with the Bureau authorities.

Adan Celaya has been appointed Field Assistant to assist Mr. Wildermuth temporarily at the Yuma, Ariz., laboratory, in connection with investigations of the alfalfa-seed chalcis fly.

Curtis Benton, Junior Entomologist, formerly with Stored-Product Insect Investigations, has accepted a transfer, effective June 1, for duty at Cleveland, Ohio, in connection with the European corn borer control operations.

The regular annual meeting of the Pacific Slope Branch of the American Association of Economic Entomologists was attended by C. M. Packard, C. C. Wilson, M. C. Lane, Thos. R. Chamberlin, L. P. Rockwood, all employees of this branch of the Bureau.



## FOREST INSECT INVESTIGATIONS

F. C. Craighead, Entomologist, in Charge

Dr. F. C. Craighead left Washington, D. C., June 19, on a field trip to visit stations and sections of the country where important studies of forest insects are to be made or control work is to be carried on this year. He will be accompanied by Dr. E. J. Kraus in his visits to Asheville, N. C., Bogalusa, La., and the Kaibab National Forest.

Dr. E. J. Kraus, Professor of Applied Botany in the University of Wisconsin, has been appointed a Field Assistant of this office for the summer. Dr. Kraus was connected with this branch in the years 1907-1909. He will study certain tree conditions which appear to have an important bearing on the various barkbeetle problems, and will visit stations in several of the areas where barkbeetles are epidemic or most active. Dr. Kraus spent several days in Washington before leaving with Dr. Craighead for Asheville, N. C., where his field investigations will begin.

William Middleton, of this office, has just returned from a short trip to Gordonsville, Va., where an attempt is being made to establish European parasites of the elm leaf-beetle in this country.

Plans are being perfected in cooperation with the American Wood Preservers' Association to have a termite-proof building erected at Ancon, Canal Zone. This building is to be a model for frame structures in the Tropics, and, among other feature, will embody concrete foundations and metal termite shields. All woodwork and furniture will be treated with various chemical preservatives.

With the cooperation of the National Lumber Manufacturers' Association, press notices have been sent out as to the advisability of modifying building codes in various cities to prevent damage by termites. This program has been taken up by the Associated Press and will doubtless receive wide publicity. Notices have also been sent to city engineers in 150 cities.

W. P. Flint, Entomologist of the State Natural History Survey Division of Illinois, is planning cooperative experiments with the State office of rural architecture to develop methods of termite-proofing buildings. These methods are to be available in the Mississippi Valley, where a large amount of damage by termites occurs.



## GIPSY MOTH AND BROWN-TAIL MOTH INVESTIGATIONS

A. F. Burgess, Senior Entomologist, in Charge

On June 6 and June 10 H. B. Peffers, of the Bureau of the Budget, visited the office and laboratory at Melrose Highlands. On June 11 Mr. Peffers, accompanied by H. L. Blaisdell and S. S. Crossman, made a trip of inspection to the storehouse at Pittsfield, Mass. During the two following days the barrier zone east of the New York State line, from Pittsfield to the Canadian border, was visited and an inspection made of spraying and scouting work.

A. F. Burgess spent several days in Washington, D. C., in the week of May 11, and during the week of June 15 he attended a conference there and visited the Gipsy Moth project in New Jersey.

H. L. Blaisdell and S. S. Crossman visited the Gipsy Moth Extermination project in New Jersey during the week of June 22. On June 27 the spraying work in New Jersey was practically finished for the season. Fish oil at the rate of 1 gallon to 400 gallons of arsenate of lead spray was used for most of the spraying. The addition of the fish oil caused the poison to adhere well to all kinds of foliage in the area sprayed. No burning or damage resulting from the spraying was observed.

On June 25 one of the 1,000-pound pressure sprayer trucks was shipped from Bound Brook, N. J., by fast freight to Yellowstone Park. This machine has been loaned to the Park for the remainder of the season for use in insect-control work.

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## BEE CULTURE INVESTIGATIONS

James I. Hambleton, Apiculturist, in Charge

Among the visitors at the Bee Culture Laboratory in June were three from Cornell University; Dr. E. F. Phillips, V. M. Argo, and R. L. Parker, the last named being a recent graduate of that institution.

The following temporary appointments have been made at the Bee Culture Laboratory: Junior Biologists in Apiculture, Prof. L. M. Bertholf, of Western Maryland College, and Carlton E. Burnside, a graduate student of the University of Michigan; Assistant Scientific Aid in Apiculture, Miss Winifred S. Hull, a student at Vassar College.

Mrs. Mary Katheryn Lindell, of Ocean View, De., has accepted a temporary appointment as Field Assistant at the temporary field laboratory, Indian River Inlet, Del.

Mr. Hambleton was at the Bee Culture Laboratory from June 27 to June 30, then returned to the temporary field laboratory in Delaware.



## FRUIT INSECT INVESTIGATIONS

A. L. Quaintance, Associate Chief of Bureau, in Charge

T. L. Bissell, formerly associated with H. F. Willard at Honolulu, Hawaii, in connection with investigations of the Mediterranean and other fruit flies, and who was granted a furlough for the purpose of undertaking graduate studies at Cornell University, has been reinstated in the Bureau and assigned to duty at Thomasville, Ga., where he will be associated with John B. Gill in biologic investigations of the more important peach insects in that region.

Gilbert J. Haeussler, graduate of the Massachusetts Agricultural College, has been appointed Junior Entomologist and assigned to duty at Riverton, N. J., where he will assist Dr. Alvah Peterson in oriental peach moth investigations.

C. A. Thomas, who has been assisting in the Japanese beetle investigations at Riverton, N. J., has resigned from the Bureau to accept a position with the Pennsylvania State College at State College, Pa.

Oliver I. Snapp, in charge of peach insect investigations at Fort Valley, Ga., writes that among the visitors at the laboratory during the month of June were Dr. S. H. Wilson, State Chemist for Georgia, and J. E. Bodenhamer, State Food Inspector, for a conference relative to spray residue on ripe peaches. Mr. Snapp also states that the curculio infestation in the peach varieties that have ripened to date has been well within one per cent in Georgia peach orchards which have had proper attention.

A third generation of the oriental peach moth has just been reared at the insectary at Fort Valley.

Several men connected with the Office of Fruit Insect Investigations have recently received degrees, as the result of graduate studies, as follows: P. W. Mason, Ph. D., George Washington University; C. A. Weigel Ph. D., Ohio State University; O. I. Snapp, M. S., Miss. Agricultural & Mechanical College, and Robert C. Burdette, M. S., University of Maryland.

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## SOUTHERN FIELD-CROP INSECT INVESTIGATIONS

J. L. Webb, Associate Entomologist, Acting in Charge

A. J. W. Hornby, tobacco expert from Zomba, Nyasaland, British Central Africa, visited the Quincy, Fla., tobacco substation on June 26.

Dr. G. F. White attended the meeting of the American Medical Association at Atlantic City in the last week in May. At this meeting a paper was presented under the authorship of Kirby-Smith, Dove, and White entitled "The Cause of Creeping Eruption."



In June Doctor White made a trip to Texas, visiting Houston and Port Lavaca to make investigations concerning the possible transmission of a virus to the cotton plant by the cotton hopper, Psallus seriatus.

J. L. Webb attended the annual meeting of the American Leather Chemists' Association at Atlantic City June 4 and 5, and spoke upon the subject of cattle grubs.

On June 20 A. C. Morgan, of Clarksville, Tenn., visited the Tobacco Insect Substation at Quincy.

Hugh E. Wallace, of the malaria mosquito force, who has been attending the University of Minnesota during the past school year, has completed the requirements for a master's degree. On July 1 he returned to duty at Mound, Ia.

Ralph L. Parker has accepted appointment for a temporary period to study the problem of the poisoning of honeybees by the use of calcium arsenate for control of the boll weevil. Mr. Parker will conduct his investigations at the Florence, S. C., station.

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#### LIBRARY

Mabel Colcord, Librarian

#### NEW BOOKS

- American Cotton Association boll weevil control campaign, 1924/25, handbook. St. Matthews, S. C., U. S. A., 1924. 32 pp.
- Gage, S. E.  
The microscope... Dark-field ed., (14th) rev. Ithaca, N. Y., The Comstock Publishing Company, 1925. 517 pp., illus., pl. Bibliography, pp. 490-498.
- Hughes, R. D.  
The principles and practice of fly and bait casting... London, A. & C. Black, Ltd., 1924. 80 pp. illus., 8 pls.
- Lutz, F. E.  
Our common butterflies. N. Y., American Museum of Natural History, Jan. 1925. 31 pp. illus. (American Museum of Natural History Guide Leaflet Series, No. 38, ed. 4.)
- Revista de fitopatologia; organo del servicio de estudio y extincion de plagas forestales. Ano 1, No. 2/3 Madrid, Sept. 30, 1923.
- Szilady, Z.  
New or little known houseflies (Tabanidae). Budapest, Museum National Hungaricum, March 15, 1923. 39 pp., pl. (Biologica Hungarica vol. 1, No. 3)
- Timoney, T. M.  
The bionomics of the sarcoptic mange parasite of the buffalo, with some observations concerning the relative power of resistance to adverse conditions of the different stages of the Acarus and of its eggs. Calcutta, Government of India, Central Publication Branch, 1924. pp. 180-200, pls. 11-14. (Pusa, Agricultural research institute Bull. 154.)



